



# Biolnk<sup>™</sup> Osteolnk<sup>™</sup>

MATERIALS FOR 3D TISSUE PRINTING







### UNIVERSAL MATRIX FOR 3D TISSUE PRINTING

# Biolnk™

NOMATERIA



- > BioInk<sup>™</sup> is a chemically-defined hydrogel to support growth of different cell types. It allows cell adhesion, mimics the natural extracellular matrix and is biodegradable.
- > BioInk<sup>™</sup> is provided as a ready-to-use chemically-defined hydrogel to print 3D tissue models. Exclusively designed for regenHU's BioFactory<sup>™</sup> and 3DDiscovery<sup>™</sup> tissue and bioprinters.
- > A versatile, chemically-defined hydrogel, supporting cell attachment, growth, differentiation and migration. The Biolnk<sup>™</sup> is suitable for long-term tissue cultivation (in vitro human dermis for up to 7 weeks).

#### Biolnk™: Modular matrix tailored to the need of your cells

> Combined with BioFactory<sup>™</sup> or 3DDiscovery<sup>™</sup> tissue bioprinters, you will be able to create composite tissue models in a layer-bylayer fashioning with spatial control of bioactive components (matrix, cells, proteins) and biomaterials.

#### Biolnk<sup>™</sup>: Printed dermis equivalent

> Fibroblasts printed in a layer-by-layer fashioning in combination with BioInk<sup>™</sup>. The dermis equivalent was cultivated for 13 days and the fibroblasts are stained with MTT (dark cells; life stain).



HE-staining of a printed dermis equivalent cultivated for 17 days.
Cross section of a dermis equivalent harboring fibroblasts.



## CALCIUM PHOSPHATE MATERIAL FOR 3D TISSUE PRINTING

# <mark>OsteoInk</mark>™



- > Osteolnk<sup>™</sup> is a ready-to-use calcium phosphate paste for structural engineering dedicated to regenHU's BioFactory<sup>™</sup> and 3DDiscovery<sup>™</sup> bioprinters.
- > Osteolnk<sup>™</sup> is a highly osteoconductive biomaterial close to the chemical composition of human bone. Dedicated for hard tissue engineering such as bone, cartilage or structural scaffold manufacturing. Osteolnk<sup>™</sup> can be combined with regenHU's biomaterial product portfolio (e.g Biolnk<sup>™</sup>) to create complex 3D tissue mimetic models.
- > The uniqueness of BioFactory<sup>™</sup> and 3DDiscovery<sup>™</sup> bioprinters enables freeform fabrication of tissue models with controlled layers and pore structure and biological composition. It enables scientists to mimic nature by combining Osteolnk<sup>™</sup> with natural or synthetic hydrogels, bioactive components, collagen or hyaluronic acid, Biolnk<sup>™</sup> or blood derivates.

#### Osteolnk™ : A tissue engineering kit to mimic nature: combine cells / proteins / hydrogels / calcium phosphate / blood derivates

- >~ Designed for BioFactory  $^{\rm TM}$  and 3DDiscovery  $^{\rm TM}$  tissue bioprinters
- > Osteoconductive calcium phosphate material
- > For Research and Development
- > Available in 5cc cartridge
- >  $\,$  Can be combined with Biolnk^{\rm TM} and bioactive components

## SWISS INNOVATION